

ABSTRACT

The recording strategy is optimized by determining a pulse
 response so as to minimize the difference between the reproduced
 5 waveform obtained by recording and reproducing the recording
 pulse signal wherein the record data is superposed with a high-
 frequency pulse and the waveform calculated by convolution of
 the record data and pulse responses. In this process, a single
 recording pulse waveform is recorded on a single track of the
 10 optical recording medium for three or more times, and sampled
 values $z_{p,1}, \dots, z_{p+3,1}, \dots, \dots, z_{p,2}, \dots, z_{p+3,2}, \dots, z_{p,3}, \dots,$
 $z_{p+3,3}, \dots$ of the reproduced waveforms reproduced therefrom are
 averaged in the order of the sampling to be used as the data for
 the reproducing waveform. Here, the first suffix for z represents
 15 the order of the sampling, whereas the second suffix represents
 the number of iterated times. The use of the averaged data can
 remove the influence by the random noise on the reproduced
 waveform.